CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/CEMENT/2019-20 Date: 18.06.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
*** Name of Work**	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
*** Sample ID**	:	Cement
Sample Received on	:	17.06.2019
Period of Testing	:	17.06.2019 to 18.06.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/SAND-Gradation/2019-20 18.06.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Customer**	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
*** Name of Work**	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
*** Sample ID**	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	17.06.2019
Date of Testing	:	18.06.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.80	90-100	90-100	90-100	95-100
2.36	81.30	60-95	75-100	85-100	95-100
1.18	59.80	30-70	55-90	75-100	90-100
600 Micron	37.20	15-34	35-59	60-79	80-100
300 Micron	16.40	5-20	8-30	12-40	15-50
150 Micron	3.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/AGG/GR/2019-20 18.06.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
*** Name of Work**	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	17.06.2019
Date of Testing	:	18.06.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.20	95-100	85-100
20	37.50	30-70	0-20
10	12.30	10-35	0-5
4.75	2.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/HNS/W.No.07/Steel/2019-20 22.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	22.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	553	13.2	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/HNS/W.No.07/Steel/2019-20 22.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	22.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	514	555	13.45	O.K	O.K

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Job No.: CTCE/BBMP/HNS/W.No.07/Steel/2019-20 22.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	22.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	516	557	13.6	O.K	O.K

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/Cube/2019-20

13.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of the work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.07.2019	13.08.2019	8.267	515.8	22.92
2	16.07.2019	13.08.2019	8.156	493.5	21.93
3	16.07.2019	13.08.2019	8.378	506.8	22.52

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/Cube/2019-20 15.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of the work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2019	15.08.2019	8.369	526.9	23.42
2	18.07.2019	15.08.2019	8.247	514.2	22.85
3	18.07.2019	15.08.2019	8.158	508.4	22.60

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of the work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.07.2019	19.08.2019	8.248	486.3	21.61
2	22.07.2019	19.08.2019	8.375	493.8	21.95
3	22.07.2019	19.08.2019	8.412	506.9	22.53

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/Cube/2019-20 21.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of the work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.07.2019	21.08.2019	8.349	508.9	22.62
2	24.07.2019	21.08.2019	8.275	497.8	22.12
3	24.07.2019	21.08.2019	8.146	482.5	21.44

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/Cube/2019-20 23.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of the work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.07.2019	23.08.2019	8.349	524.7	23.32
2	26.07.2019	23.08.2019	8.278	505.6	22.47
3	26.07.2019	23.08.2019	8.415	532.6	23.67

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/Cube/2019-20 03.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of the work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	03.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2019	03.09.2019	8.249	502.6	22.34
2	06.08.2019	03.09.2019	8.375	517.4	23.00
3	06.08.2019	03.09.2019	8.452	526.9	23.42

*Information is furnished by the Customer/Representative.

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Note:

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/Cube/2019-20 05.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H.N. Shivashankar** No. 490/3, 7th Cross Road, Mahalakshmi Layout, Bangalore – 86.
* Name of the work	:	Construction of drain from Varma Land to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.08.2019	05.09.2019	8.249	507.9	22.57
2	08.08.2019	05.09.2019	8.163	495.2	22.01
3	08.08.2019	05.09.2019	8.378	522.3	23.21

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/Cube/2019-20 09.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.08.2019	09.09.2019	8.349	495.2	22.01
2	12.08.2019	09.09.2019	8.278	503.9	22.40
3	12.08.2019	09.09.2019	8.156	488.6	21.72

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/Cube/2019-20 12.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/28/2019-20 Dated : 15.06.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.08.2019	12.09.2019	8.349	515.2	22.90
2	15.08.2019	12.09.2019	8.278	506.3	22.50
3	15.08.2019	12.09.2019	8.415	529.8	23.55

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Job No.: CTCE/BBMP/HNS/W.No.07/CSR-987b/Cube/2019-20 14.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*** Sample ID**	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.08.2019	14.09.2019	8.178	486.2	21.61
2	17.08.2019	14.09.2019	8.246	497.2	22.10
3	17.08.2019	14.09.2019	8.394	510.6	22.69

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* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.349	531.2	23.61
2	19.08.2019	16.09.2019	8.175	510.3	22.68
3	19.08.2019	16.09.2019	8.293	527.4	23.44

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